

## **Publications**

### **Peer-reviewed research articles, reviews and book chapters**

- Guerenstein PG**, Núñez JA (1994) Feeding response of the haematophagous bugs *Rhodnius prolixus* and *Triatoma infestans* to saline solutions: a comparative study. *Journal of Insect Physiology* **40**: 747-752.
- Guerenstein PG**, Lorenzo MG, Núñez JA, Lazzari CR (1995) Baker's yeast, an attractant for baiting traps for Chagas' disease vectors. *Experientia* **51**: 834 - 837.
- Lazzari CR, Schilman P, **Guerenstein PG**, Ianowski J (1998) Nervous Integration. Chapter 23 B in: Carcavallo, Galindez-Giron, Jurberg & Lent (eds.) Atlas of Chagas disease vectors in America, Vol. III, Ed. Fiocruz, Brazil.
- Guerin PM, Kroeber T, McMahon C, **Guerenstein PG**, Grenacher S, Vlimant M, Diehl P-A, Steullet P, Syed Z (2000) Chemosensory and behavioural adaptations of ectoparasitic arthropods. *Nova Acta Leopoldina NF* **83**: 213-229, Germany.
- Guerenstein PG**, Guerin PM (2001) Olfactory and behavioural responses of the blood-sucking bug *Triatoma infestans* to odours of vertebrate hosts. *Journal of Experimental Biology* **204**: 585-597.
- Diehl P-A, Vlimant M, **Guerenstein PG**, Guerin PM (2003) Ultrastructure and receptor cell responses of the antennal grooved peg sensilla of *Triatoma infestans* (Hemiptera: Reduviidae). *Arthropod Structure and Development* **31**: 271-285.
- Guerenstein PG**, Guerin PM (2004) A comparison of volatiles emitted by adults of three triatomine species. *Entomologia Experimentalis et Applicata* **111**: 151-155.
- Guerenstein PG**, Yopez EA, van Haren J, Williams DG, Hildebrand JG (2004) Floral CO<sub>2</sub> emission may indicate food abundance to nectar-feeding moths. *Naturwissenschaften* **91**: 329-333.
- Thom C, **Guerenstein PG**, Mechaber WL, Hildebrand JG (2004) Floral CO<sub>2</sub> reveals flower profitability to moths. *Journal of Chemical Ecology* **30**: 1285-1288 (erratum: 1477). (Recommended paper by "Faculty of 1000")
- Guerenstein PG**, Christensen TA, Hildebrand JG (2004) Sensory processing of ambient-CO<sub>2</sub> information in the brain of the moth *Manduca sexta*. *Journal of Comparative Physiology A* **190**: 707-725
- Abrell L, **Guerenstein PG**, Mechaber WL, Stange G, Christensen TA, Nakanishi K, Hildebrand JG (2005) Effect of elevated atmospheric CO<sub>2</sub> on oviposition behavior in *Manduca sexta* moths. *Global Change Biology* **11**: 1272-1282
- Dacks A., **Guerenstein P**, Reisenman C., Martin J., Lei H., Hildebrand J. (2007) Olfaction: Invertebrates — *Manduca*. Encyclopedia of Neuroscience (Sr. Editors: Larry Squire, Tom Albright, Floyd Bloom, Fred Gage and Nick Spitzer) Elsevier, Oxford, UK (accepted)

### **In preparation**

- Lopez-Riquelme GO, **Guerenstein PG**, Hildebrand JG (2008) Detection and processing of olfactory information. Chapter 2 in Tovar J.C. & Rojas Leon J.C. (eds.) Pheromones and insect attractants –in Spanish-, Ed. CP Universidad Autonoma de Chapingo, Texcoco, Mexico
- Guerenstein P.G.**, Hildebrand J.G. (2008) "Roles and Effects of Environmental CO<sub>2</sub> on Insect Life". *Annual Review of Entomology*.

### **Selected abstracts for Congresses (Total: 23)**

- Guerenstein PG**, Lorenzo Figueiras AN, Lorenzo MG, Núñez JA, Lazzari CR (1993) Natural attractants for Chagas' disease vectors. *Medicina Buenos Aires* **53**: 66.
- Guerin PM, McMahon C, **Guerenstein PG** (1996) Improving tsetse fly trapping. 1<sup>st</sup> Research Coordination Meeting of the Coordinated Research Programme on "Improved Attractants for Enhancing the Efficiency of Tsetse Fly Suppression Operations and Barrier Systems Used in Tsetse Control/Eradication Campaigns". Kenia's government -FAO/IAEA. Nairobi, Kenya.
- Thom C, **Guerenstein PG**, Yepez EA, Mechaber WL, van Haren J, Hildebrand JG, Williams DG (2003) CO<sub>2</sub> emission by *Datura* flowers and its significance for foraging *Manduca sexta* moths. *Chemical Senses* 28: A25
- Guerenstein PG**, Thom C., Pawlowski V., Paulk A., Christensen TA, Hildebrand JG (2005) Is there a functional rationale for the glomerular spatial map in an insect's olfactory lobe? *Society for Neuroscience Abstracts*, 614-20.
- Guerenstein PG**, Beyerlein A, Eaton-Mordas A, Christensen TA, Hildebrand JG (2006) The role of CO<sub>2</sub> cues from plants in the moth-plant interaction and in the processing of odor information in the moth's CNS. Annual Meeting of the International Society for Chemical Ecology, S5-P34.

### **Articles published in the press as a result of my research**

Article based on "Guerenstein et al. (1995) Baker's yeast, an attractant for baiting traps for Chagas' disease vectors": "*Bäckerhefe gegen Raubwanzen: Eine Falle für die Überträger der Chagas-Krankheit*". (*Baker's yeast against assassin bugs: a trap for the vectors of Chagas' disease*). **Frankfurter Allgemeine Zeitung**, n° 225, 27/9/95, page N2 (**Germany**).

"Two University of Arizona researchers embracing work to keep kissing bugs from loving you." Interview. **Arizona Daily Star**, June 9 2006 (Arizona, **USA**).

"University of Arizona scientists work to keep kissing bugs away." Interview. **The Arizona Republic**. June 14 2006 (Arizona, **USA**)

### **Teaching publications**

Co-author of "BIOLOGIA, de los átomos a la vida - Guía de Estudio 1991" (Guide to study "General Biology", **University of Buenos Aires**).